Reply to OA dated June 21, 2005

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A process for producing a synthetic resin foam comprising

the step of reacting at least one polyol with at least one polyisocyanate compound in the presence

of an organic blowing agent and a catalyst,

wherein the blowing agent being is a mixture comprising 1,1,1,3,3-pentafluorobutane and

at least one low-boiling halogen-containing compound,

wherein the organic blowing agent and the polyol mixture forms a premix which is

substantially nonflammable;

wherein the at least one low-boiling halogen-containing compound has a relatively low

thermal conductivity and a boiling point of about -90 to about 10°C and the thermal conductivity of

the halogen containing compounds in the gaseous state is about 8 to about 30 mW/mK at about 1

atmospheric pressure; and

wherein the organic blowing agent further comprises at least one member selected from the

group consisting of glycol compounds and amine compounds.

Claim 2 (Canceled)

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Claim 3 (Currently Amended): The A process according to Claim 1, wherein the organic

blowing agent further comprises at least one glycol compound.

Claim 4 (Canceled)

Claim 5 (Currently Amended): The A process according to Claim 1 or 2, wherein the

halogen-containing compound has a boiling point lower than the boiling point of HFC-365mfc

(40°C).

Claim 6 (Currently Amended): The A process according to Claim 1 or 2, wherein the

halogen-containing compound is nonflammable and has a boiling point of about 10 to about 60°C

and a thermal conductivity when it is in the gaseous state of about 8 to about 20 mW/mK at about

1 atmospheric pressure.

Claim 7 (Canceled)

Claim 8 (Currently Amended): The A process according to Claim 1 or 2, wherein the

halogen-containing compound is at least one member selected from the group consisting of saturated

or unsaturated hydrofluoroethers (HFEs), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) and

fluoroiodocarbons (FICs).

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Claim 9 (Currently Amended): The A process according to Claim 1 or 2, wherein the halogen-containing compound is at least one member selected from the group consisting of 1,2,2trifluoroethylene trifluoromethyl ether (CF₂=CFOCF₃), 1,2,2-trifluoroethylene 1,1,2,2,3,3,3heptafluoropropyl ether (CF₂=CFOCF₂CF₂CF₃), perfluoropropyl epoxide (CF₃CF(O)CF₂), perfluoro-1-butene (CF_2 = $CFCF_2CF_3$), perfluorohexenes (C_6F_{12}), perfluorononenes (C_9F_{18}), perfluorohexane (C_6F_{14}) , perfluorocyclobutane $(c-C_4F_8)$, iodotrifluoromethyl (CF_3I) , 1,1,1,2,3,3-hexafluoropropane (CF₃CFHCF₃H), 1,1,1,3,3,3-hexafluoropropane (CF₃CH₂CF₃), 1,1,1,2,3,3,3-heptafluoropropane (CF₃CFHCF₃), pentafluoroethane (CF₃CF₂H), tetrafluoroethanes (CHF₂CHF₂, CF₃CFH₂), trifluoromethane (CF₃H), 1,1,2,2,3,3,4,4-octafluorobutane (CF₂HCF₂CF₂CF₂H), 1,1,1,2,2,3,4,5,5,5decafluoropentane (CF₃CF₂CFHCFHCF₃), 2-trifluoromethyl-1,1,1,2,3,4,5,5,5-nonafluoropentane $(C_6F_{12}H_2)$, 3,3,4,4,5,5,6,6,6-nonafluoro-1-hexene $(F(CF_2)_4CH=CH_2)$, 2,3,3,4,4,5,5-heptafluoro-1pentene (CH2CFCF2CF2H), trifluoroethylene (CF2CFH), 1,1,2,2-tetrafluoroethyl difluoromethyl ether (CF₂HCF₂OCHF₂), 1,1,2,2-tetrafluoroethyl methyl ether (CF₂HCF₂OCH₃), 2,2,2-trifluoroethyl 1,1,2,2-tetrafluoroethyl ether (CF₃CH₂OCF₂CF₂H), 1,1,2,3,3,3-pentafluoropropyl methyl ether (CF₃CFHCF₂OCH₃), nonafluorobutyl methyl ether (C₄F₉OCH₃), 1-trifluoromethyl-1,2,2,2tetrafluoroethyl methyl ether ((CF₃)₂CFOCH₃), perfluoropropyl methyl ether (CF₃CF₂CF₂OCH₃), 2,2,3,3,3-pentafluoropropyl difluoromethyl ether (CF₃CF₂CH₂OCHF₂), 1,2,3,3,4,4hexafluorocyclobutane (c-C₄F₆H₂), 2,3-dichlorooctafluorobutane (CF₃CFClCFClCF₃, boiling point: 63°C), 1-chloro-1,1,2,2,3,3,4,4-octafluorobutane (CF₂ClCF₂CF₂H, boiling point: 50°C), 1,2dichlorohexafluorocyclobutane (-CFClCFClCF₂CF₂-, boiling point: 60°C), and 1,1,1,3,3,3U.S. Patent Application Serial No. 10/511,442 Amendment filed December 21, 2005 Reply to OA dated June 21, 2005

hexafluoropropan-2-ol (CF₃CH(OH)CF₃, boiling point: 59°C).

Claim 10 (Currently Amended): The A process according to Claim 1 or 2, wherein the halogen-containing compound is 1,1,1,2,3,3,3-heptafluoropropane (HFC227ea: CF₃CFHCF₃).

Claim 11 (Currently Amended): The A process according to Claim 1 or 2, wherein the proportion of halogen-containing compound is about 1 to about 49 mol per 100 mol of HFC-365mfc and halogen-containing compound in total.

Claim 12 (Currently Amended): The A process according to Claim 1 or 2, wherein the catalyst is a tertiary amine, an organometallic compound, or a mixture thereof.

Claim 13 (Currently Amended): An organic blowing agent for producing a synthetic resin foam, the organic blowing agent comprising 1,1,1,3,3-pentafluorobutane and at least one halogen-containing compound, the blowing agent being a mixture comprising 1,1,1,3,3-pentafluorobutane and at least one low-boiling halogen-containing compound,

wherein the organic blowing agent and the polyol mixture forms a premix which is substantially nonflammable;

wherein the at least one low-boiling halogen-containing compound has a relatively low thermal conductivity and a boiling point of about -90 to about 10°C and the thermal conductivity of

the halogen containing compounds in the gaseous state is about 8 to about 30 mW/mK at about 1 atmospheric pressure; and

wherein the organic blowing agent further comprises at least one member selected from the group consisting of glycol compounds and amine compounds.

Claim 14 (Canceled)

Claim 15 (Currently Amended): The A blowing agent according to Claim 13 further comprising at least one glycol compound.

Claim 16 (Currently Amended): The A blowing agent according to Claim 13, wherein the halogen-containing compound is 1,1,1,2,3,3,3-heptafluoropropane (HFC227ea: CF₃CFHCF₃).

Claim 17 (Currently Amended): A premix for producing a synthetic resin foam, the premix comprising 1,1,1,3,3-pentafluorobutane, at least one halogen-containing compound and at least one polyol, the blowing agent being a mixture comprising 1,1,1,3,3-pentafluorobutane and at least one low-boiling halogen-containing compound,

wherein the premix is substantially nonflammable;

wherein the at least one low-boiling halogen-containing compound has a relatively low thermal conductivity and a boiling point of about -90 to about 10°C and the thermal conductivity of

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the halogen containing compounds in the gaseous state is about 8 to about 30 mW/mK at about 1 atmospheric pressure; and

wherein the organic blowing agent further comprises at least one member selected from the group consisting of glycol compounds and amine compounds.

Claim 18 (Canceled)

Claim 19 (Currently Amended): The A premix according to Claim 17 further comprising at least one glycol compound.

Claim 20 (Currently Amended): The A premix according to Claim 17, wherein the halogen-containing compound is 1,1,1,2,3,3,3-heptafluoropropane (HFC227ea: CF₃CFHCF₃).

Claim 21 (Currently Amended): The A premix according to Claim 17 or 18 that is nonflammable.